Menlo Park Notebook #113 [N-80-06-14]

This notebook covers the period June-August 1880. The name of George H. Hill appears on the cover. Hill's name and Edison's initials also appear on page one. There is no other indication of authorship. The book contains a record of tests on experimental lamps, numbers 1175 to 1505. The cover is labeled "Lamps on pump," "July 25, 1880," and "George H Hill." The book contains 284 numbered pages.

The following pages contain skeleton tables that were never filled in (not filmed): 8-25, 28-39, 48-49, 52-53, 154-177.

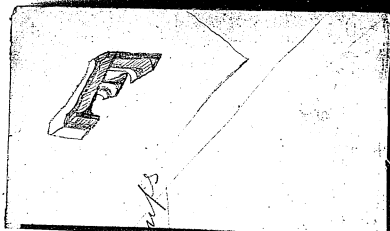
Blank pages not filmed: 178-281.

F

Book of Jumps
June 1175.

Cro of Jump	Remarks	1
1175	there was a good many Jumps made that mo Kiem I was kick of Alex	
1177		

(WILLIAMS & PLUM)
Printers, Stationers
AND
Blank Book Manufacturers,
777 Broad St. NEWARK, N.J.



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May 1, 1896

FROM
(WILLIAMS & PLUM)
Printers & Stationers
AND
Blank Book Manufacturers.
777 Broad St. NEWARK, N.J.

Cross Lamp	Remarks	1
1175	there was a good many lamps made that no Room I was kept of Acer	
1176		
1177		

2

start-9-50

1356 m Burke at 9-54

1356L Burke 10,20

1357R Burke 10,30

1358 m start 9-57 to 11,37

1359 [illegible] at [illegible]

1331 Chg 4, P.m.

1372 [illegible] Burke

1373 [illegible] at 11,35

1374 started 11,45

1375 start at 12,[illegible]

Cross Jumps	Remarks	3
1178		
1179		
1180		

Cro Lamp	Remarks
1181	
1182	
1183	

Start 1.30, Stop 1.45
[illegible] in carbon

C.V.O. Lamp	Remarks
1184	
1185	
1186	

CNU Lamp	Remarks 27
1214	
1215	
1216	~~Description~~ Large Lamp Number gram [illegible] Asphalt in Carbon Carbon & Asphalt in one Lamp after burning for 25 minutes it gave a Bright Light Volume 105

CNO Jump	Remarks
July 26 1236	Bass fibes- Broke the Carbon as soon as the current was put on did not give any light.
1237	
July 26 1238	Bass fibes- there was Bad spots on the Carbon very bright spot at the clamp did not give a good light V 105-
July 26 1239	Bass fiber Ebra no spots it gave a good light Vacuum 113

No Lamp	Remarks
1240	
July 25 1241	Bass Fibres - Bad spots in carbon and did not give a good Light Vacuum 110
1242	
July 27 1243	Jorge Bass fibre - Wire through the Bulb and small piece of carbon on the end of wire no spots gave a good light when sealed off V108

CVO Journ	Remarks
1244	
July 27 1245	Bars & Ties - Banks [illegible] as Current Was [illegible] CVO
1246	
1247	

Cro Yamp	Remarks
1248	
1249	
1250	
1251	

Cro Lamp.	Remarks
1256	
July 26 1257	Bass Filter no sputts it gave a good light Vacuum 110
July 27 1258	Bass filter Required Had sputts in the Carbons but it gave a good light Vacuum When tested off 100
1259	

No Lamp	Remarks
1264	
1265	
1266	
June 15- 1267	Burned soon as put current on did not get no Light the Carbon went into fine Powder-

CRO Journ.	Remarks
June 15 1268	no spots 100 m m slightly Blue with high Current
June 14 1920 1269	Bass fiber- dipped in solution of amonia no spots same Color- as all the ammonia
June 15 1270	Bass fiber- dipped in amonia same as 1269 no spots high Vacuum same color- as all amonia
June 15 1271	high Vacum no spots 100 m m

Oro Lamp.	Remarks
June 16 1880 1272	Bass fiber - carbonized in Tye P.I - Recarbonized Platinum does not show very good on them gives it Platinum sparks
June 16. 1880 1273	Bamboo fiber - no sparks high Res Vacuum 100 m m Both Ends split inside
June 16. 1880 1274	good carbon no sparks Slightly Blue 95 - m m
June 16 1880 1275	good carbon no sparks Slightly Blue

CNO Lamp	Remarks
June 16 1890 1276	Bamboo with notch in one side very Bad sports in it But not at the notch
July 17 1890 1277	Bamboo With notch Cut in one side High Vacuum & m m very good notch Was very Bright Spot
1278	
July 17 1890 1279	gave a good Light no sports from 10 15 to 11 5 0 am high Vacuum sealed off

No Lamp	Remarks
July 17 1880 1280	Paper-carbon Bad sparks and very crooked carbon sealed off with high vacuum time 1.10.25.5-8m
1281	
July 17 1282	Bamboo Fiber- no sparks very high slightly Blue when full current was on
July 19 1283	Bamboo Fiber- Broke the carbon as soon as current was put on close to the clamp- did not give any light

Oro Jamp	Remarks
1284	
1285	Bamboo Fibes- no spots it gave a good light- high Vacuum When sealed H. V 107 July 19
1286	Bamboo fibes- it gave a good light it had no Bad spots in it- V102 July 19, 1880.
1287	Bamboo fibes- no spots it gave a good Light- Vacuum 107 July 19. 80

No Lamp	Remarks
1288	Spot Light high Vocum Bass fiber - dipped - in Syrup Vocum 100 July 19, 80
July 19 1289	Same as 1288 gave a good Light no spots Vocum When Sealed th 103
July 30 1290	Bamboo fiber - it Was very Bright on one side of the Carbon and had spots in Vocum When Sealed th 100
July 20 1291	Bass fiber - With Flat on ends of Carbon no spots it gave a good Light Vocum 112

Ord. Lamp.	Remarks
July 20 1272	Bass Fibre- several Bad spots in Carbon Bright spot in the centre of the Carbon and it did not give a very good light- Vacuum 107
July 20 1273	
July 20 1274	Bamboo Fibre- no spots in carbon it was very even and gave a good light after it burnt for about half an hour- found out that the Carbon was split in the lamp-
July 21 1275	Bamboo Fibre- there was some Bad spots in carbon as marked here Vacuum 106

No Lamp	Remarks
1296 Feb 21 1880	Bamboo Fiber- no spots it gave a good Light Vocum When sealed off 105
1297	
1298 Feb 21 1880	Bamboo Fiber- there Was Several Bad spots in the Carbon Vocum When sealed off 105-
1299 Feb 2 80	Bamboo Fiber- Very Fine no spots gave a good Light But Was slightly Blue Vocum 104

Exp No Lamp	Remarks
July 21 1900	Bamboo Fiber- one side of the Carbon was dark and the other side Light Red Vocum When sealed off 105
July 22 1901	Bamboo 12X12 Regular very Even no spots in the Carbon after it Burnt for about one hour- found out the Carbon was split in in the clamp Vocum 112
July 22 1902	Bambo 12X12 Regular sealed off there was a crack in the inside glass could not get a Vocum sealed off the pump
July 28 1903	Bambo Regular- very small spots in the Bottom of Carbon and gave a Bright-Light on Bottom of Carbon V 112

No Comp	Remarks
July 22 1904	Bamboo Fibes- Several Bad Spots in the carbon but it gave a Bright-Light- Slightly Blue Vacuum 114
1905	
1906	
July 23 1907	Bamboo fiber 12X12 m spots after it Burnt for about 25 minuts found the carbon Was split in the clamp it gave a Bright- Vacuum 114

No of Lamp	Remarks
Feb 23 1308	Bamboo fibes - 12X12 no spots it gave a good Light - Slightly Blue Vacuum 112
Feb 23 1309	Bamboo fibes - no spots gave a good Light - But was slightly Blue Vacuum 110.
Feb 22 1310	Japanese Bamboo Fibes - Bad spot in Carbon as marked here there was a split in Carbon in the Clamp it did not show the split under it Burnt for about 25 minutes. Vacuum 112
Feb 21 1311	Real Bamboo Fibes - very Even no Bad spots in Carbon fibes. it Burnt for about one hour. found out that the Carbon was split in the Clamp. V 112

Date	Remarks	79
July 31 1812	Real Bamboo Fiber one side of the carbon was a little darker than the other it burnt for about one hour found out that the carbon was split in lamp	
July 22 1813	Japanese Bamboo fiber Broke as soon as current was put on did not give any light	
July 22 1814	Japanese Bamboo Fiber Broke the carbon as soon the current was put on did not give any light high Vacuum	
1815		

No Lamp	Remarks
July 23 1316	amaranth Wood The Carbon Was full of Bad spots and showed the Blue very Plain Vacuum 104
July 28 1317	ordinary Bamboo no spots gave a good light Was slightly Blue Vacuum 112
July 24 1318	amaranth 12X12. Bad spots in the carbon showed the Blue very Plain at the clamps sealed off With high Vacuum
July 24 1319	White Holly Bad spots in the Carbon and gave a Poor-Light- Vacuum 108

No Lamp	Remarks
July 24 1320	White Holly Bad spots in Carbon it showed Blue very Plain from the Clamps and carbon
July 24 1321	TULIP. WOOD 12 X 12 Broke on the Pump By the mercury Running in the Lamp By G.H.
July 24 1322	Bamboo Fibes. no spots it gave a good Light it was slightly Blue Vacuum 112
July 24 1323	Bass fibes. are formed in the Clamps But it gave a Bright Light

No Lamp	Remarks
Feb. 26 1324	Bass Carbonized in Kerosene for instant- only no sparks it gave a good light- Advance Blue on the clamps Vacuum 104-
Feb. 26 1325	manilla fiber treated in Kerosene Bad sparks on the carbon give a Bright light Vacuum 107
1326	treated in Kerosene soon as current was put on it broke the carbon at the clamps
Feb. 27 1327	made in cyn mould Regular- no sparks it gave a good light after it burnt for about 30 minutes found out the carbon was split in clamps V110

1331 Started [illegible] at [illegible] 2 [illegible] Pm

July 27 1328	made in new mould 12X12 Same as 1327 no spots it gave a good light V112
July 28	1328 Put on second time no spots it gave a good light Vacuum 112
July 27 1329	no spots it gave a good light — very high current Vacuum when sealed off 110
1330	
July 1331	Bamboo Bad spots in carbon it gave a bright light With high current Vacuum 110

No Year	Remarks
July 1332	Bamboo Bad splits in the Carbon close to the clamp Vocum 110
July 1333	Bamboo Bad splits in the carbon & Bright spot at the clamp it gave a very Bright Light Vocum when added of 108
1334	
July 1335	Bamboo Regular 12X12 no splits it gave a good Light after it Burnt for a half an hour found out the carbon was split in the clamp Vocum 110

1339 started in Pure
5 minutes past 2 aug 4 pm

No Lamp	Remarks
July 30 1336	Lambs Reg 12X12 Wire. Was on end of Carbon no spots of [illegible] good light - Vacuum [illegible] 110
July 31 1337	Large 6 in files. no spots it gave a good light - files - it burnt for about 25 minuts found out the carbon Was split in clamp V 100
July 1338	Large 6 in files. no spots as soon as the current [illegible] Was found out Bad the carbon Was split in the lamp it gave a bright light Vacuum 110
Aug 2 1339	Bass files - Bad [illegible] in the end [illegible] but it gave a good light Vacuum [illegible]

No Lamp	Remarks
Aug 2 1340	Bad fibers - same as 1339 Black spots in carbon no gave a good light was slightly Blue Vacuum 95
July 31 1341	Bamboo 12 X 12 Large fiber Bad spots in the carbon. Vacuum 95
July 31 1342	Paper-Carbon no spots gave a good light Vacuum 107
July 30 1343	Large fiber no spots gave a good light Vacuum 100

Ore Lamp	Remarks
Aug 2 1344	Large fiber no spots it gave a good light Slightly Blue Vacuum 105
Aug 2 1345	Large fiber no spots gave a good light Slightly Blue Vacuum when pinched off 105
Aug 2 1346	Large fiber no spots gave a good light was Slightly Blue Vacuum when pinched off 105
Aug 2 1347	Large fiber Bad spots in the carbon but it gave a Bright light and was Slightly Blue Vacuum 107

Exp Temp	Remark
Aug 1348	Large fiber - no spots it gave a good light is slightly Blue Vacuum 110
Aug 3 1349	Large fiber - no spots it gave a good light slightly Blue Vacuum 105
Aug 3 1350	Large fiber - no spots it gave a good light after it burnt for about one hour - found out the Carbon was split in the Clamp slightly Blue V 105
Aug 3 1351	Large fiber - no spots it gave a good light Vacuum 105

Ore Lamp	Remarks
Aug 3 1352	Large Fibes- no shots it- gave a Bright Light- was slightly Blue Vocum 107
Aug 3 1353	Large fibes- no shots gave a good Light- was slightly Blue Vocum 105
aug 3 1354	Large fibes- no shots it gave a good Light was slightly Blue Vocum 110
Aug 4 1355	Large fibes- no shots after it Burnt for- a few minutes found out the Carbon was split in the lamp it gave a good Light Vocum 10[illegible]

- Started 950 Robs 10.20

13 Started to Burn at 950
Robs 10.30

1357 Started ~~[illegible]~~ 942
~~[illegible]~~ Started to
Burn 1357. Robs 11.07

No Damp	Remarks	101
Aug 4 1356	Large fiber [illegible]	
Aug 4 1357	Large fiber [illegible] Voum [illegible]	
Aug 1358	Large fiber [illegible]	
Aug 4 1359	Large fiber Bad [illegible] Put it [illegible] good Light Voum 98	

Ono Lamp	Remarks
Aug 6 1360	Large Bamboo fiber no effects [illegible]
1361	Large [illegible] Ball effects in carbon gave a Bright-Light-Sealed off With length
Aug 7 1362	Large fiber-
1363	

1366 Started 26 Jan 750
Broke at 900

1367 Started at 12.5 Aug 6
Broke 750 C. Pan

Ore Lamp	Remarks	
1364		
1365		
Aug 4 1366	Large Bunton flame Bad spot in Carbon Carbon was split in the Chimney gave a good Vacuum 100	
Aug 1367	Large Bunton flame no spots gave a good Light Vacuum 100	

Date	Remarks
Aug 4/2 1368	Large Bamboo fibers. Bad spots in carbon split in clamps. Burned gave a good light Vacuum 98
Aug 5 1369	Large Bamboo fiber. Bad spots in the carbon gave a good light Vacuum 104
Aug 5 1370	Large bamboo fiber full of bad spots and gave a poor light Taken off without exhausting.
Aug 5 1371	Large Bamboo fiber no spots gave a good light Vacuum 100

1872 [illegible] to Burn
[illegible] Brake 5.15

1873 [illegible] to Burn
11.15 [illegible] Burnt 5 minutes

1875 [illegible] 11.45 am

No Lamp	Remarks	109
Aug 5 1872	Large filter no spots at [illegible] a good light. Voum 100	
Aug 1873	Large filter no spots at [illegible] a good light. Voum 100	
Aug 5 1874	Large filter no spots [illegible] a good light. Voum 100	
Aug 5 1875	Large Bamboo filter. Bad spots in the Carbon split in the clamp	

Ch...
Route 935-

No Lamp.	Remarks	111
Aug 5 1376	[illegible] no [illegible] Carbon [illegible] Clear [illegible] Light Vacuum [illegible]	
Aug 5 1377	Large fiber Experimental Bad shots in Carbon But [illegible] Bright [illegible] Bulb	
Aug 5 1378	Large fiber Experimental no defects at gave a good light scarce off with high Vacuum	
Aug 1379	Large fiber no [illegible] gave a good [illegible] high Vacuum [illegible] Lamp	

No Lamp	Remarks
Aug 6 1380	Large fiber no spots gave a good light broke off at the neck. Vacuum New pump
Aug 6 1381	Large fiber ~~Bad~~ spots after burnt for a few minutes done one small spot in side of carbon did not show when lamp heated. Taken off without [illegible]
Aug 6 1382	Large fiber no spots it gave a good light and was [illegible] fine. high Vacuum New Pump
Aug 6 1383	Large fiber no spots it gave a good light was [illegible] in the clamp high Vacuum

Aro Lamp	Remarks
Aug 1384	Large filter no spots [illegible]
Aug 1385	Large filter no spots gave a good light [illegible] high vacuum for [illegible]
Aug 1386	Large filter no spots gave a good light high vacuum for
Aug 6 1387	[illegible] filter no spots Broke in the pump with a high vacuum

Aug 6
1388 no spots Carbon
was split in clamp
sealed off high Vacuum

1389 was missed when
[illegible]

1392 Large fiber - Red one
pump - second time

No Lamp	Remarks	117
Aug 1389	no spots the Carbon was split in the clamp sealed off high Vacuum	
Aug 1390	1390 no spots Broke By Letting the mercury Run out of the pump	
Aug 1391	Large fiber Red spots did not give a good light	
Aug 8 1392	Large fiber no spots split in clamp could not get a high Vacuum glass broken off the in small tube at work	

Gro Lamy	Remarks
Aug 7 1893	Large Filler
Aug 7 1894	Large filler. Bad [illegible] [illegible]
Aug 7 1895	Large filler. New [illegible] gave a [illegible]
Aug 1896	Large filler. New [illegible] Cracked in the [illegible] in lamp - gave a [illegible]

1400 A Bad spots in carbon after it burnt for about half an hour. the carbon split a part in the clamp and broke redell Jr

1399 C no spots gave a good light - split in clamp
high Vacuum

1399 B no spots gave a good light
high Vacuum

AUG. 11 1900
1400 ~~A~~ C Large fibes -

~~1400 A Bad spots in carbon~~
~~OCCURED. in clamp broke on pump~~

Ord Lamp	Remarks
1397	Large fibes -
Aug 7 1398	Large fibes - no spots gave a good light
Aug 11 1399	A Large fibes - no spots gave a good light did not get a high Vacuum Regards - of TAE.
Aug 11 1400	B. Large fibes - no spots gave a good light did not get a high Vacuum Regards - TAE

1402 Large fiber - B
Bad connection in the
Lamp could not get any
Light

No. Lamp	Remarks
Aug 12 1401	Large fiber - Bad spots But it gave a good Light did not get a high Vacuum By order - TAE
Aug 12 1402	Large fiber - Bad spots did not give a good Light Burnt out of cofape LOW. VACUUM Order - TAE
1403	
1404	

Arc Lamp	Remarks
1405	
Aug 12 1406	Large fibes- no spots gave a good light At Rest very Little to one side high Vacuum
Aug 12 1407	Large fibes- Broke the Carbon by turning off the pump did not Exhaust
Aug 12 1408	Large fibes- Bad spots Burnt as soon as the current was put on gave a Bright light sealed off By order Mr Upton

No Lamp.	Remarks
Aug 12 1409	Large fibes- Bad spots the carbon Rent out the sheet as soon as current was put on gave a Bright Light sealed H Pg order- from Chas Upton
Aug 12 1410	Large fibes- Bad spots did not Rend as much as No 1408 and 1409 gave a good Light
Aug 12 1411	Large fibes- Bad spots did not Rend as much as No 1408 and 1409 gave a good Light Was split in the Lamp
1412	

1910 Jany.	Remarks
Aug 12 1413	Large fibes- Broke the Carbon as soon as the current was put on did not get any Light
Aug 16 1414	Large fibes- Bad spots the Carbon was carrigated gave a good light Went out of shape Broke when full current was put on
1415	
Aug 12 1416	Large fibes- Bad spots gave a Bright Light did not Bend the Carbon did not get a high Vacuum

No Lamp	Remark
Aug 12 1417	Large fibes- did not Exhaust sealed off by order- from Mr. Upton
Aug 13 1418	Large fibes no spots the carbon was carrigated and gave a good light did not Bend any high Vacuum
Aug 13 1419	Large fibes- same as 1418 Bad spots in the carbon gave a good light did not Bend the carbon when full current was on. Very short high Vacuum when sealed off
Aug 13 1420	Large fibes- Bad spots on carbon split in the clamp gave a good light Burning little sealed off with high Vacuum

No Lamp	Remarks
Aug 13 1421	Large fibes- [illegible] spots Gave a good light [illegible] Little sealed off Melts high Vacuum
Aug 13 1422	Large fibes- Bad spots- Gave a Bright- light- Was sealed off did not get a high Vacuum the Engine stopped for all night
Aug 13 1423	Large fibes- Bad spots- Gave a Bright- light- did not get a high Vacuum the Engine stopped for the night- did not have any steam
Aug 14 1424	Large fibes- no spots Gave a good light- did not hence high Vacuum

C.V.O. Lamp	Remarks
Aug 12 1425	Large fibes - Broke as soon as the current was put - one did not give any light
Aug 14 1426	Large fibes - Bad spots in one carbons and Bent as soon as the current was put on - did not Ed Laurie
Aug 15 1427	Large fibes - Bad spots the carbon was Corrugated gave a good light - one carbon Bent very little slightly Blue high Vacuum
Aug 17 1428	Large fibes - Bad spots one carbon was Corrugated gave a bright - Light was Bent a little to one side high Vacuum

New Inspection

No Lamp.	Remarks
Aug 14 1429	Large fiber- no Aports split in the clamp did not Bend Broke on the pump by the Boy striking the Lamp N.G.
Aug 14 1430	Large fiber- Bad Aports in the carbon and did not Exhaust the carbon was no good sealed off N.G.
Aug 16 1431	Large fiber- no Aports gave a good Light was split in the clamp slightly Blue high Vacuum did not Bend
Aug 16 1432	Large fiber Bad Aports did not give a good Light it Bent the carbon when current was first on did not get a high Vacuum

1433 Large fiber-
Bad spots split in damp
gave a Bright Light- Part
lit Burnt over. to one side
high Vocuum.

Aug 14 1434	Large fiber- Bad spots gave a Bright Light Broke on the pump and made a Loud Report same as a Pistol
Aug 16 1435	Large fiber- no spots gave a good Light and did not burn the Carbon When current was Poson
Aug 17 1436	Large fiber- no spots gave a good Light and did not burn high Vocum
Aug 18 1437	Large fiber- Bad spots gave a good Light Burnt very Little high Vocuum

No Lamp	Remarks
Aug 19 1438	Large fiber- Bad spots in the Carbon close to the clamp Bent Wire little Bad it gave a good light could not get with Vacuum at 45
Aug 19 1439	Large fiber- no spots gave a good light and not Bend high Vacuum
Aug 19 1440	~~Small~~ fiber- Bad spots gave a good light could not get a high Vacuum Lamp has an pump 3½ hours
Aug 19 1441	Large fiber Bad spots in Carbon close to the clamp split in clamp gave a Bright light could not get a high Vacuum Sealed off

No of Lamp	Remarks
Aug 18 1442	Large fiber - Bad spots gave a good light - did not Bend any Sealed off with high Vacuum
Aug 18 1443	Large fiber - Bad spots gave a good light - Was slightly Blue did not Bend any high Vacuum
Aug 18 1444	Large fiber - no spots gave a good light Bent very Little high Vacuum
Aug 18 1445	Large fiber Bad Spots gave a good Light - did not Bend high Vacuum

No. of Lamp	Remarks
Aug 18 1446	Large fibes- Bad spots gave a good Light- did not Bend the Carbon any Perfectly strait Very high Vocuum
Aug 20 1447	~~[illegible]~~ Large fibes- Bad spots very Bad spots out the Clamp and Bent out of Shape did not get a high Vocuum Lamp N 6
Aug 20 1448	~~Large fibes Bad spots~~ Large fibes- no spots gave a good Light- did not Bend any Perfectly Strait- high Vocuum
Aug 18 1449	Large fibes- Bad spots gave a good Light- Bent very Bad did not get a high Vocuum

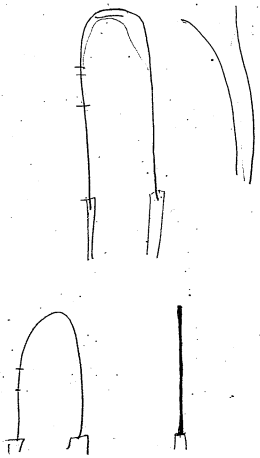
Orig. No. Lamp	Remarks
Aug 19 1450	Large fibes - Bad spots Gave a good Light - did not Bend very sealed off With high Vocuum
Aug 20 1451	Large fibes - Bad spots Gave a good Light Split in the Clamp. Bent very Little high Vocuum
Aug 19 1452	Large fibes - Bad spots Gave a good Light - Bent very Little sealed off With high Vocuum
Aug 19 1453	Large fibes - 8/100 X 19/1000 no spots Perfectly shaft sealed off high Vocuum By ORder - TAE

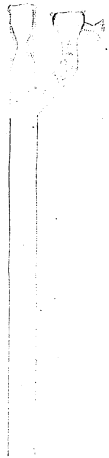
No of Samp.	Remarks
Aug 20 1454	Large fibes- 9/1000 By 15/1000 no spots gave a good light the Carbon Bent some Scaled off good vacuum Taken By McKensie
Aug 19 1455	Large fibes- 9/1000 By 15/1000 Red spots gave a good light Broke on the clamp the inside felt cracked Bulb a good vacuum
Aug 20 1456	Large fibes- 9/1000 By 15/1000 No spots gave a good light the Carbon Bent one Clamp got Black had a high vacuum
Aug 19 1457	Large fibes- 8/1000 By 16/1000 no spots gave a good light did not Bend high vacuum

Bro Lamp	Remarks
Aug 20 1458	Large fibes 9/1000 Pa 15/1000 x 1000 Bad spots the carbon was carrigated and Rent out of shape could not get a high vacuum on pump 3 hours spliting lamp
Aug 21 1459	Large fiber 9/1000 Pa 15/1000 the [illegible] Carbon was on the lamp gave a good [illegible] light slowly with high vacuum
Aug 21 1460	Large fiber 9/1000 Pa 15/1000 no spots gave a good [illegible] Tester Rent [illegible] little high vacuum
Aug 21 1461	Large fiber Bottom Carbon Tester Bad spots did not Bottom [illegible] Bright spot on Bottom of carbon time 15 minuts

1463 Was on the Carbon tests. Before going on the Jump and had light-spots

No Jump	Remark
Aug 1462	[illegible] was on the carbon tests and had bright spots [illegible] it looked almost [illegible] Current [illegible] Bad [illegible]
Aug 26. 1463	Large filas. nickel clamps very light-spots gave a good light when full current was on there was a Blue spots about the clamps Kept very little
Aug 26 1464	Large filas. nickel clamps light-spots in the carbons gave a good light sealed off with high Vocuum did not Bend
Aug 25 1465	Large filas. nickel clamps Carbon was on the carbon tests. Before going in Lamp no spots gave a good light was slightly Blue Kept very Little high Vocuum





Clean finish With
Burnish. and Pass. as-
trings 10

Geo. R. Hill
Sunbury July 25-1890

A.U.G. 11 1890